

=> fil reg

FILE "REGISTRY" ENTERED AT 16:26:01 ON 28 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 27 APR 2005 HIGHEST RN 849400-77-7
DICTIONARY FILE UPDATES: 27 APR 2005 HIGHEST RN 849400-77-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

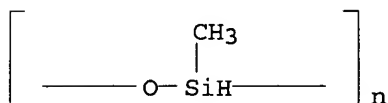
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide l3; d ide l4; d ide l14; d ide l17 1-3; d ide l19

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 9004-73-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[oxy(methylsilylene)] (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,3,5,7-Tetramethylcyclotetrasiloxane homopolymer, sru
CN 136-157M
CN 2,4,6,8-Tetramethylcyclotetrasiloxane homopolymer, SRU
CN BS 94
CN C 153A
CN C 19B
CN Geranex S 3
CN HMS 013
CN HMS 991
CN HMS 992
CN Lukofix T 40D
CN Me hydrogen siloxane, SRU
CN ~~Methyl hydrogen siloxane~~
CN Methylsilanediol homopolymer, sru
CN Methylsilanediol polymer sru
CN Monomethylsiloxane, SRU
CN PHMS 67

CN PMHS
 CN PMHS 1107
 CN Polon MF 16
 CN Polon MF 33A
 CN Polon MF 49
 CN Polon MK 206
 CN Polon MR
 CN Polon MWS
 CN Poly(1,3,5,7-tetramethylcyclotetrasiloxane, SRU
 CN Poly(methyl hydrogen siloxane)
 CN Poly(methyl siloxane)
 CN Poly(methylhydrosiloxane)
 CN Polysilicone 4
 CN SH 1107C
 CN SL 6020D1
 CN SLE 5300B
 CN SM 8707
 CN SS 4300C
 CN Syl-off 7367
 CN TSF 484-20
 CN TSH 14
 CN TSW 831
 CN V 72
 CN Zh 136-157M
 DR 109048-41-1, 109048-42-2
 MF (C H4 O Si)n
 CI PMS, COM
 PCT Polyother, Polyother only
 LC STN Files: BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DETHERM*, EMBASE, IFICDB, IFIPAT,
 IFIUDB, MSDS-OHS, NIOSHTIC, TOXCENTER, USPAT2, USPATFULL.
 (*File contains numerically searchable property data)

RELATED POLYMERS AVAILABLE WITH POLYLINK



1573 REFERENCES IN FILE CA (1907 TO DATE)
 547 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1576 REFERENCES IN FILE CAPLUS (1907 TO DATE)

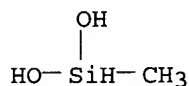
L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 49718-23-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Silanediol, methyl-, homopolymer (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Hydrogenmethyilsiloxane
 CN Methyl hydrogen silanediol homopolymer
 CN Methyl hydrogen siloxane
 CN Methyl hydrogen siloxane polymer
 CN Methyilsilanediol homopolymer
 CN Methyilsilanediol polymer

CN Poly(methylsilanediol)
DR 87337-95-9, 31346-13-1
MF (C H6 O2 Si)x
CI PMS, COM
PCT Polyother, Polyother only
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

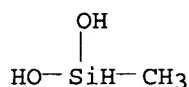
CM 1

CRN 43641-90-3
CMF C H6 O2 Si



1629 REFERENCES IN FILE CA (1907 TO DATE)
1032 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1632 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN ~~43641-90-3~~ REGISTRY
ED Entered STN: 16 Nov 1984
CN Silanediol, methyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methylsilanediol
FS 3D CONCORD
MF C H6 O2 Si
CI COM
LC STN Files: CA, CAPLUS, IFICDB, IFIUDB, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

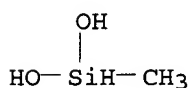
26 REFERENCES IN FILE CA (1907 TO DATE)
20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN ~~168398-25-2~~ REGISTRY
ED Entered STN: 05 Oct 1995
CN Silanediol, dimethyl-, polymer with methylsilanediol, block (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Silanediol, methyl-, polymer with dimethylsilanediol, block (9CI)
OTHER NAMES:
CN Methyl hydrogen silanediol-dimethylsilanediol block copolymer,
DR 328240-39-7
MF (C2 H8 O2 Si . C H6 O2 Si)x
CI PMS
PCT Polyother, Polyother only
SR CA
LC STN Files: CA, CAPLUS

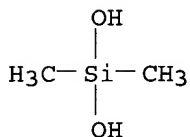
CM 1

CRN 43641-90-3
CMF C H6 O2 Si



CM 2

CRN 1066-42-8
CMF C2 H8 O2 Si

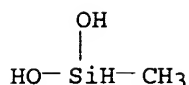


7 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 157761-43-8 REGISTRY
ED Entered STN: 20 Sep 1994
CN Silanediol, dimethyl-, polymer with methylsilanediol, graft (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Silanediol, methyl-, polymer with dimethylsilanediol, graft (9CI)
OTHER NAMES:
CN Dimethylsilanediol-methylhydrogensilanediol graft copolymer
CN Dimethylsilanediol-methylsilanediol graft copolymer
MF (C2 H8 O2 Si . C H6 O2 Si)x
CI PMS
PCT Polyother, Polyother only
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

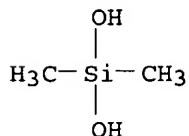
CRN 43641-90-3
CMF C H6 O2 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



19 REFERENCES IN FILE CA (1907 TO DATE)

11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

RN ~~156118-35-3~~ REGISTRY

ED Entered STN: 01 Jul 1994

CN Silanediol, dimethyl-, polymer with methylsilanediol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Silanediol, methyl-, polymer with dimethylsilanediol (9CI)

OTHER NAMES:

CN Dimethyl (hydrogen methyl) siloxane

CN Dimethylsilanediol-hydrogenmethylsilanediol copolymer

CN Dimethylsilanediol-methylhydrogensilanediol copolymer

CN Dimethylsilanediol-methylsilanediol copolymer

CN Dimethylsilanediol-monomethylsilanediol copolymer

CN Dimethylsilanol-methylsilanol copolymer

CN Hydrogenmethylsilanediol-dimethylsilanediol copolymer

CN ~~Methylhydrogensilane-dimethylsilane copolymer~~

CN Methylhydrogensilanediol-dimethylsilanediol copolymer

CN Methylsilanediol-dimethylsilanediol copolymer

DR 158728-93-9, 132743-58-9, 175682-83-4

MF (C2 H8 O2 Si . C H6 O2 Si)x

CI PMS

PCT Polyother, Polyother only

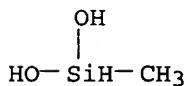
SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2

CM 1

CRN 43641-90-3

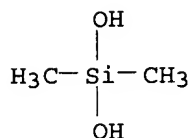
CMF C H6 O2 Si



CM 2

CRN 1066-42-8

CMF C2 H8 O2 Si



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1500 REFERENCES IN FILE CA (1907 TO DATE)

1186 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1505 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 2370-98-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclotetrasiloxane, 2,4,6,8-tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,3,5,7-Tetramethylcyclotetrasiloxane

CN 2,4,6,8-Tetramethylcyclotetrasiloxane

CN Hydrosilox

CN KF 9902

CN LS 8600

CN SIT 7530.0

CN Tetramethylcyclotetrasiloxane

FS 3D CONCORD

DR 121904-05-0

MF C4 H16 O4 Si4

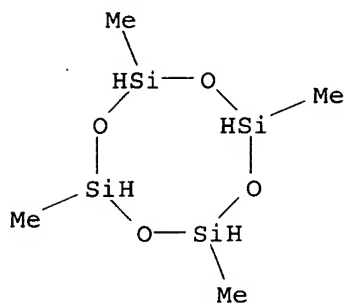
CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

906 REFERENCES IN FILE CA (1907 TO DATE)
 178 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 909 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 29 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil hcapl; d que 162; d que 163; d que 172

FILE 'HCAPLUS' ENTERED AT 16:26:05 ON 28 APR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 28 Apr 2005 VOL 142 ISS 18

FILE LAST UPDATED: 27 Apr 2005 (20050427/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L3	1 SEA FILE=REGISTRY ABB=ON	9004-73-3
L4	1 SEA FILE=REGISTRY ABB=ON	49718-23-2
L14	1 SEA FILE=REGISTRY ABB=ON	43641-90-3
L16	735 SEA FILE=REGISTRY ABB=ON	1066-42-8/CRN AND 43641-90-3/CRN
L17	3 SEA FILE=REGISTRY ABB=ON	L16 AND 2/NC
L19	1 SEA FILE=REGISTRY ABB=ON	2370-88-9
L51	2215 SEA FILE=HCAPLUS ABB=ON	L3 OR L4 OR L14
L52	1526 SEA FILE=HCAPLUS ABB=ON	L17
L53	909 SEA FILE=HCAPLUS ABB=ON	L19
L54	246323 SEA FILE=HCAPLUS ABB=ON	POWDER#/OBI

L55 49842 SEA FILE=HCAPLUS ABB=ON POLYSILOXANES/CT
 L56 54841 SEA FILE=HCAPLUS ABB=ON "SILOXANES AND SILICONES"/CT
 L58 105049 SEA FILE=HCAPLUS ABB=ON (SURFACE? (5A) COAT?)
 L59 3051 SEA FILE=HCAPLUS ABB=ON (L55 OR L56) (L) (ME OR METHYL?) (A) (H
 OR HYDROGEN)
 L61 89263 SEA FILE=HCAPLUS ABB=ON PARTICLE SIZE#/OBI
 L62 2 SEA FILE=HCAPLUS ABB=ON ((L51 OR L52 OR L53) OR L59) AND L54
 AND L58 AND L61

L3 1 SEA FILE=REGISTRY ABB=ON 9004-73-3
 L4 1 SEA FILE=REGISTRY ABB=ON 49718-23-2
 L14 1 SEA FILE=REGISTRY ABB=ON 43641-90-3
 L16 735 SEA FILE=REGISTRY ABB=ON 1066-42-8/CRN AND 43641-90-3/CRN
 L17 3 SEA FILE=REGISTRY ABB=ON L16 AND 2/NC
 L19 1 SEA FILE=REGISTRY ABB=ON 2370-88-9
 L51 2215 SEA FILE=HCAPLUS ABB=ON L3 OR L4 OR L14
 L52 1526 SEA FILE=HCAPLUS ABB=ON L17
 L53 909 SEA FILE=HCAPLUS ABB=ON L19
 L54 246323 SEA FILE=HCAPLUS ABB=ON POWDER#/OBI
 L55 49842 SEA FILE=HCAPLUS ABB=ON POLYSILOXANES/CT
 L56 54841 SEA FILE=HCAPLUS ABB=ON "SILOXANES AND SILICONES"/CT
 L57 105049 SEA FILE=HCAPLUS ABB=ON (SURFACE? (5A) COAT?)
 L59 3051 SEA FILE=HCAPLUS ABB=ON (L55 OR L56) (L) (ME OR METHYL?) (A) (H
 OR HYDROGEN)
 L63 7 SEA FILE=HCAPLUS ABB=ON ((L51 OR L52 OR L53) OR L59) AND
 L57 (L) L54

L3 1 SEA FILE=REGISTRY ABB=ON 9004-73-3
 L4 1 SEA FILE=REGISTRY ABB=ON 49718-23-2
 L14 1 SEA FILE=REGISTRY ABB=ON 43641-90-3
 L16 735 SEA FILE=REGISTRY ABB=ON 1066-42-8/CRN AND 43641-90-3/CRN
 L17 3 SEA FILE=REGISTRY ABB=ON L16 AND 2/NC
 L19 1 SEA FILE=REGISTRY ABB=ON 2370-88-9
 L51 2215 SEA FILE=HCAPLUS ABB=ON L3 OR L4 OR L14
 L52 1526 SEA FILE=HCAPLUS ABB=ON L17
 L53 909 SEA FILE=HCAPLUS ABB=ON L19
 L54 246323 SEA FILE=HCAPLUS ABB=ON POWDER#/OBI
 L55 49842 SEA FILE=HCAPLUS ABB=ON POLYSILOXANES/CT
 L56 54841 SEA FILE=HCAPLUS ABB=ON "SILOXANES AND SILICONES"/CT
 L59 3051 SEA FILE=HCAPLUS ABB=ON (L55 OR L56) (L) (ME OR METHYL?) (A) (H
 OR HYDROGEN)
 L64 3975302 SEA FILE=HCAPLUS ABB=ON .DEGREE.
 L65 587977 SEA FILE=HCAPLUS ABB=ON (20! OR 21! OR 22! OR 23! OR 24! OR
 25! OR 26! OR 27! OR 28! OR 29!) (2W) L64
 L66 317600 SEA FILE=HCAPLUS ABB=ON (30! OR 31! OR 32! OR 33! OR 34! OR
 35! OR 36! OR 37! OR 38! OR 39!) (2W) L64
 L67 225167 SEA FILE=HCAPLUS ABB=ON (40! OR 41! OR 42! OR 43! OR 44! OR
 45! OR 46! OR 47! OR 48! OR 49!) (2W) L64
 L68 202019 SEA FILE=HCAPLUS ABB=ON (50! OR 51! OR 52! OR 53! OR 54! OR
 55! OR 56! OR 57! OR 58! OR 59!) (2W) L64
 L69 41 SEA FILE=HCAPLUS ABB=ON ((L51 OR L52 OR L53) OR L59) AND L54
 AND (L65 OR L66 OR L67 OR L68)
 L71 1012449 SEA FILE=HCAPLUS ABB=ON COAT?
 L72 25 SEA FILE=HCAPLUS ABB=ON L69 AND L71

=> s 162 or 163 or 172

~~174 32 162 OR 163 OR 172~~~~=> double-ed abs hiton 1-32~~; fil hom

L74 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:209931 HCAPLUS

DOCUMENT NUMBER: 142:283678

TITLE: Copper **powder** surface treated with silicone oil and sulfur compound for oxidation resistance

INVENTOR(S): Tomonari, Masanori

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005060778	A2	20050310	JP 2003-292861	20030813
PRIORITY APPLN. INFO.:			JP 2003-292861	20030813

ED Entered STN: 10 Mar 2005

AB A Cu powder is surface treated with a silicone oil and a S compound In the powder, (W2 - W1)/W1 x 100) is maximum 15%, where W1 is the weight after heating

for 10 gh at 60° in a nonoxidizing atmospheric and W2 is the weight after heating for 20 min at 500° in an oxidizing atmospheric

The silicone oil and S compound are used at weight ratios of 0.2-20% and 0.1-20%, resp., based on Cu particles. The powder is manufactured by conducting a reaction of a Cu compound with a reducing agent in the presence of a S compound and a protective colloid, and treating the Cu powder thus obtained with a silicone oil. The powder having improved oxidation resistance is suitable for pastes, paints, and electrodes.

IT 9004-73-3, Poly[oxy(methylsilylene)]

RL: NUU (Other use, unclassified); USES (Uses)

(copper **powder** surface treated with silicone oil and sulfur compound for oxidation resistance)

L74 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:13808 HCAPLUS

DOCUMENT NUMBER: 142:85147

TITLE: Composite fillers with small volume-average **particle size** and excellent dispersibility and magnetic recording media using them

INVENTOR(S): Hayashi, Kazuyuki; Iwasaki, Keisuke; Morii, Hiroko

PATENT ASSIGNEE(S): Toda Kogyo Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005004816	A2	20050106	JP 2003-164401	20030609
PRIORITY APPLN. INFO.:			JP 2003-164401	20030609

ED Entered STN: 07 Jan 2005

AB The fillers consist of white inorg. particle powders with Mohs hardness ≥ 6 coated with carbon black and show average primary particle size 0.01-0.6 μm and preferably volume-average particle size (D50) ≤ 2.20 μm and geometric standard deviation (D84/D50) ≤ 2.2 . The media (e.g., audio tape, video tape, backup tape) containing the powders in magnetic recording layers show good surface smoothness and strength and reduced drop outs.

IT 49718-23-2D, Methylsilanediol homopolymer, trimethylsilyl-terminated

RL: TEM (Technical or engineered material use); USES (Uses)
(assumed monomers, white particle modified with; carbon black-coated white **powder** fillers with small **particle size** and good dispersibility for magnetic tapes with good smoothness, strength, and reliability)

L74 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:392049 HCAPLUS

DOCUMENT NUMBER: 140:395247

TITLE: Cosmetic hydrophilized powder surface treated with polyether-modified silicone

INVENTOR(S): Kamei, Masanao; Tachibana, Kiyomi

PATENT ASSIGNEE(S): Japan

SOURCE: U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004091440	A1	20040513	US 2003-701566	20031106
JP 2004155978	A2	20040603	JP 2002-324840	20021108
EP 1424373	A2	20040602	EP 2003-78528	20031110

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: JP 2002-324840 A 20021108

ED Entered STN: 14 May 2004

AB The present invention is hydrophilized powder, wherein the powder is surface treated with polyether-modified silicone having a hydrolyzable silyl group. The invention also provides a composition comprising the powder, an aqueous dispersion comprising the powder, and their application in cosmetics, coatings, and inks. $\text{Me}_3\text{SiO}(\text{SiMe}_2\text{O})_{10}(\text{SiRMeO})_3(\text{SiR}_1\text{Me})_2\text{SiMe}_3$ [R = $\text{C}_3\text{H}_6\text{O}(\text{CH}_2\text{CH}_2\text{O})_{32}\text{Me}$, $\text{R}_1 = \text{C}_2\text{H}_4\text{Si}(\text{OEt})_3$] was prepared and used in a composition also containing TiO_2 . A number of cosmetic examples including sunscreens, eyeshadow, mascara, etc. containing the siloxanes were given.

IT 156118-35-3D, trimethylsilyl-terminated

RL: RCT (Reactant); RACT (Reactant or reagent)

(assumed monomers; cosmetic hydrophilized powder surface treated with polyether-modified silicone)

L74 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:36991 HCAPLUS

DOCUMENT NUMBER: 140:78615

TITLE: Titanium dioxide pigments and glossy powder coating compositions containing them

INVENTOR(S): Takahashi, Hideo; Hirai, Yasumasa; Kato, Hiroshi;

Odawara, Kazunori

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004010650	A2	20040115	JP 2002-162639	20020604
PRIORITY APPLN. INFO.:			JP 2002-162639	20020604

ED Entered STN: 16 Jan 2004

AB The pigments are surface-coated with ≥ 1 organosilicon compds. chosen from polyorganosiloxanes, alkoxysilanes, and their hydrolyzates and have average particle size of 0.1-0.5 μm . Thus, TiO_2 pigment (average particle size 0.25 μm) coated with Al_2O_3 and SiO_2 hydrate was coated with 0.3% Me H polysiloxane. Thus, a galvanized steel sheet was electrodeposited with a powder composition containing U-Pica Coat GV 570 (polyester) 87, Vestagon B 1530 (curing agent) 13, and the coated pigment 100 parts to give a 37- μm thick coating showing 20° gloss 53 and L value 94.

L74 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:868281 HCAPLUS

DOCUMENT NUMBER: 139:351356

TITLE: Electrically conductive resin compositions

INVENTOR(S): Akiba, Hideki; Yoshino, Masachika; Ichiroku, Nobuhiro; Shiohara, Toshio

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003313427	A2	20031106	JP 2002-122239	20020424
US 2003216505	A1	20031120	US 2003-422011	20030424
PRIORITY APPLN. INFO.:			JP 2002-122239	A 20020424

ED Entered STN: 06 Nov 2003

AB Title compns. comprise (A) thermosetting or thermoplastic resins 100, (B) conductive fillers 5-2000, and (C) organic resin or rubber fine particles 0.1-300 parts. Thus, a composition comprising polyamic acid solution with viscosity 29 Pa-s and solid content 25.1% obtained from 9.66 g 3,3',4,4'-biphenyltetracarboxylic anhydride and 6.00 g 4,4'-diaminodiphenyl ether 100, silver powder with average particle diameter 7 μm 80, and silsesquioxane covered methylsiloxane-vinyl containing dimethylsiloxane copolymer rubber particle with average particle diameter 15 μm 10 parts was applied on a substrate and cured at 150° for 1 h and 250° for 4 h to give a coating film with volume resistance $6 + 10^{-5} \Omega\text{-cm}$ and complex modulus of elasticity 4.0 GPa.

IT 156118-35-3DP, Dimethylsilanediol-methylsilanediol copolymer, dimethylsilyl-terminated, hydrosylation products with vinyl-containing siloxanes

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(rubber particle, silsesquioxane **coated**; preparation of elec.
conductive resin compns.)

L74 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:349531 HCAPLUS

DOCUMENT NUMBER: 138:355242

TITLE: Color pigments having good dispersibility, heat
resistance, and light fastness and their
powder coatings

INVENTOR(S): Morii, Hiroko; Osugi, Mineko; Shitabata, Yusuke;
Hayashi, Kazuyuki

PATENT ASSIGNEE(S): Toda Kogyo Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2003129002	A2	20030508	JP 2001-331486	20011029
PRIORITY APPLN. INFO.:			JP 2001-331486	20011029

ED Entered STN: 08 May 2003

AB The color pigments comprise composite particles powders with mean particle diameter 0.001-0.15 μ m and composed of (A) white inorg. particles powders **coated** with (B) sizing agents, preferably organosilicon compds. and/or coupling agents, (C) organic pigments and/or carbon black being adhered to B at ratio A:C = 100:1-500 (parts). Thus, **coating** TiO₂ grains (mean particle diameter 0.253 μ m) with 2.0 parts MeSi(OMe)₃ (TSL 8123), depositing 50.0 parts phthalocyanine-based pigment blue grains on the **coating**, mixing with di-Me polysiloxane (TSF 451), and depositing azoic pigment yellow grains gave color pigments. A powder **coating** containing a polyester 82.0, a blocked isocyanate hardener 14.0, and the color pigments 4.0 parts was sprayed on a Zn phosphate-treated steel plate to a film with gloss 92%, surface smoothness Ra 0.35 μ m, L value 62.49, a value 5.31, and b value -20.96, light fastness (Δ E) 2.04, and heat resistance **261.degree**

..

L74 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:524696 HCAPLUS

DOCUMENT NUMBER: 135:111719

TITLE: Silicone-treated **powders** for cosmetics

INVENTOR(S): Kanemaru, Tetsuya; Jouichi, Kyoko; Ohno, Kazuhisa

PATENT ASSIGNEE(S): Shiseido Company Limited, Japan

SOURCE: Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
EP 1116753	A2	20010718	EP 2001-400029	20010108
EP 1116753	A3	20031008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001262004	A2	20010926	JP 2000-380891	20001214

US 2001016202	A1	20010823	US 2001-753569	20010104
US 2004047887	A1	20040311	US 2003-679298	20031007
PRIORITY APPLN. INFO.:			JP 2000-10146	A 20000114
			US 2001-753569	B1 20010104

ED Entered STN: 20 Jul 2001

AB A silicone-treated powder is composed of a powder **coated** on the **surface** with a silicone, wherein the amount of hydrogen generated by Si-H groups remaining on the surface of the silicone-treated powder is not more than 0.2 mL/g of the treated powder and a contact angle of water with the treated powder is at least 100°. Thus, 500 g sericite and Silicone KF 99 were dissolved in hexane and the solvent was evaporated to give a powder. The powder was heated in an elec. furnace at **400. degree.** to give the silicone-treated powder. The amount of residual hydrogen generated was 0.08 mL/g. The above powder was used in cosmetic formulations.

IT **2370-88-9**, Tetramethylcyclotetrasiloxane **9004-73-3**, Methylsilanediol homopolymer, **49718-23-2**, Methylsilanediol homopolymer **156118-35-3**, Dimethylsilanediol-methylsilanediol copolymer

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (silicone-treated **powders** for cosmetics)

L74 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:650212 HCAPLUS

DOCUMENT NUMBER: 131:258971

TITLE: Manufacture of **coated** metal plates having decorative crawlings

INVENTOR(S): Honma, Nobuyuki; Kobari, Masaji; Kotegawa, Junichi

PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
JP 11276986	A2	19991012	JP 1998-83151	19980330
PRIORITY APPLN. INFO.:			JP 1998-83151	19980330

ED Entered STN: 13 Oct 1999

AB The process involves (i) applying undercoats onto the surfaces of metal plates, (ii) drying, (iii) forming intermediate **coats** with desired patterns by applying decoration-forming agents containing waterproofing agents by using gravure rolls, and (iv) roll-**coating** topcoats. Thus, a galvanized and chromated steel plate was subjected to 2-**coat**-2-bake process. The plate was **coated** with a pigmented polyester **coating**, baked at 210. **degree.**, patterned with Me H polysiloxane emulsion by using a gravure roll, **coated** with an Al powder-containing topcoat while the surfacer was still wet, then baked at 210° to give a **coated** plates having a vivid crawling decoration.

L74 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:451323 HCAPLUS

DOCUMENT NUMBER: 131:89151

TITLE: Heat-resistant **powder coating** compositions

INVENTOR(S): Schmit, Michael J.; Hart, Stephen C.; Eklund, Wayne G.

PATENT ASSIGNEE(S): H.B. Fuller Company, USA
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9935195	A1	19990715	WO 1999-US197	19990106
W: AU, CA, CN, JP, KR, MX, NZ				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9921057	A1	19990726	AU 1999-21057	19990106
PRIORITY APPLN. INFO.:			US 1998-3455	A 19980106
			WO 1999-US197	W 19990106

ED Entered STN: 23 Jul 1999

AB Title comps., which are cured at a temperature >190 °C to form films with a thickness of >45 µm, comprise acrylic polymers (preferably glycidyl-containing), hydroxyl-containing polysiloxanes, inorg. compds. [e.g., (hydrated) silicates and/or metasilicates], preferably and metals or inorg. oxides, and optionally flow-control agents. An Al-cast substrate was electrodeposited with a composition comprising Dow Corning Z 10543 50, Z 6018 30, Fine-Clad A 244A 20, Resiflow P-67HBF 1.4, a catalyst 1.0, NYAD 325 110, Al 20, and additives 31.5 parts and heated at 204. degree. for 15 min to form a test piece showing good heat-resistant adhesion (530°, 24 h).

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L74 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:675352 HCAPLUS

DOCUMENT NUMBER: 129:303579

TITLE: Surface-modified titanium oxide **powders** for improvement of heat and fire resistance of silicone rubber with decreased discoloration

INVENTOR(S): Kawamura, Kyoko; Jono, Hirokuni; Murota, Masamichi

PATENT ASSIGNEE(S): Nippon Aerosil Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10279308	A2	19981020	JP 1997-80067	19970331
PRIORITY APPLN. INFO.:			JP 1997-80067	19970331

ED Entered STN: 26 Oct 1998

AB TiO₂ powders are surface-treated with organosilicon compds. having organic groups, which can attach or bind to TiO₂ surface, and Si-H groups so that discoloration of silicone rubber caused by formation of active O on TiO₂ surface is inhibited. Thus, 200 g of powdered TiO₂ was treated with 20 g Me₃Si-terminated Me H siloxane at 200° to give 60%-hydrophobicized TiO₂. A dimethylvinylsilyl-terminated vinyl-containing organopolysiloxane-based rubber sheet containing 2 phr of the powders showed initially tensile strength 80 kg/cm², elongation 443%, and color difference 3.3, and after 7 days at 250°, 41

kg/cm², 165%, and 4.1, resp.

IT 2370-88-9, 1,3,5,7-Tetramethylcyclotetrasiloxane
 49718-23-2D, Methylsilanediol homopolymer, trimethylsilyl-terminated
 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
 (titanium **powders** surface-treated with hydrosilyl compds. for stabilizers of silicone rubbers with decreased discoloration)

L74 ANSWER 11 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:490951 HCAPLUS
 DOCUMENT NUMBER: 127:140224
 TITLE: Zinc oxide-**coated** flaky mineral **powders**, their manufacture, and UV-protecting cosmetics containing them
 INVENTOR(S): Kobayashi, Ryuzo
 PATENT ASSIGNEE(S): Noevir K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09188611	A2	19970722	JP 1996-19471	19960109
JP 3594721	B2	20041202		

PRIORITY APPLN. INFO.: JP 1996-19471 19960109

ED Entered STN: 04 Aug 1997

AB Title cosmetics, e.g. sunscreens, powder cosmetics, etc., contain title powders prepared by **coating** cleaved swellable layer clay minerals, which have thickness 0.001-0.2 μ m and aspect ratio 30-100, with Zn salt hydrolyzates and calcined at 300-700°. The cosmetics show protection against UV-A as well as UV-B. Smectite (thickness 0.07 μ m, aspect ratio 70) was treated with ZnSO₄ and NaOH in H₂O at 80° and calcined at 500° for 2 h to give ZnO-**coated** smectite. A powder foundation (SPF 20.1) was prepared from talc 10.0, sericite 53.0, the smectite 20.0, red iron oxide 0.7, yellow iron oxide 3.0, black iron oxide 0.3, and squalane 13.0 weight%.

IT 9004-73-3, Methyl hydrogen siloxane 49718-23-2, Methylsilanediol homopolymer
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**coating**; UV-protecting cosmetics containing ZnO-**coated** flaky mineral **powders**)

L74 ANSWER 12 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:189515 HCAPLUS
 DOCUMENT NUMBER: 126:187480
 TITLE: Lustering agents with uniform coatability and good wipe removability
 INVENTOR(S): Morita, Yoshiji; Sasaki, Atsushi; Tanaka, Masaru
 PATENT ASSIGNEE(S): Dow Corning Toray Silicone, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09003408	A2	19970107	JP 1995-178195	19950621

PRIORITY APPLN. INFO.: JP 1995-178195 19950621

ED Entered STN: 21 Mar 1997

AB Title agents contain C5-30 alkylsilyl group-containing cured silicone powders and waxes and/or waxy materials. Thus, 100 parts a dimethylvinyl silyl-terminated di-Me siloxane was emulsion-polymerized with 11 parts HSiMe2O(SiMe2O)10(SiHMeO)10SiMe2H and 10 parts 1-octene at 30° for 6 h in H2O in the presence of 4 parts polyoxyethylene nonyl Ph ether, cured at 80° for 1 h, and spray-dried to obtain silicone rubber powders, 10 parts of which was mixed with carnauba wax 10, ozocerite 10, beeswax 20, microcryst. wax 10, flowable paraffin wax 25, a trimethylsilyl-terminated di-Me siloxane 10, and Mg silicate powders 5 parts and applied on an acrylic resin coating films to show uniform coatability, good wipe removability, good gloss, and good weather resistance.

IT 49718-23-2D, Methylsilanediol homopolymer, trimethylsilyl-terminated

RL: TEM (Technical or engineered material use); USES (Uses)
(surface treating agents for titanium oxide, for **surface coating** of silicone rubber **powders**; wax-based lustering agents containing alkylsilyl group-containing silicone rubbers with uniform coatability and good wipe removability)

L74 ANSWER 13 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:69654 HCAPLUS

DOCUMENT NUMBER: 126:90415

TITLE: Propylene-based polymer compositions for oriented films with good blocking and scratch resistances and transparency

INVENTOR(S): Tsuyuki, Minoru; Itaba, Yasushi

PATENT ASSIGNEE(S): Tonen Kagaku Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08291233	A2	19961105	JP 1995-120555	19950421

PRIORITY APPLN. INFO.: JP 1995-120555 19950421

ED Entered STN: 31 Jan 1997

AB Title compns. are obtained by mixing (A) 0.03-0.30 part organopolysiloxane-treated crushed powdered SiO2 and (B) 100 parts propylene-based polymers. Thus, a film having haze 1.6% was prepared from polypropylene containing 0.05 phr polymethylsiloxane-treated powdered SiO2.

IT 9004-73-3, Poly[oxy(methylsilylene)] 49718-23-2, Methylsilanediol homopolymer

RL: MOA (Modifier or additive use); USES (Uses)
(crushed silica coated with; polypropylene compns. for oriented films with good blocking and scratch resistances and transparency)

L74 ANSWER 14 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:569310 HCAPLUS

DOCUMENT NUMBER: 125:198723

TITLE: Powders modified by methyl hydrogen siloxane coatings

and their manufacture in process fpr prevention of fires

INVENTOR(S): Kuroda, Akihiro
 PATENT ASSIGNEE(S): Kanebo Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08157741	A2	19960618	JP 1994-331904	19941209
PRIORITY APPLN. INFO.:			JP 1994-331904	19941209

ED Entered STN: 24 Sep 1996

AB Title powders, which may be mixts. TiO₂, Fe oxides, etc., containing lamina powders, e.g., talc, mica, are prepared by mixing 100 parts powders and 8-60 parts Me hydrogen siloxane and stirring at 100-180° for 1-24 h, in which abnormal increase of temperature is prevented. The powders are useful for cosmetics showing improved adhesion to skin, etc. Thus, yellow Fe oxide 50, sericite 50, and Me₃SiO(SiMe₂O)₁₅(SiHMeO)₁₅SiMe₃ 20 parts were mixed, stirred at 145° for 10 h, and atomized to give title powder (cosmetic), which was added to arm to show retention of adhesion after washing by soap.

IT 156118-35-3, Dimethylsilanediol-methylhydrogensilanediol copolymer
 RL: TEM (Technical or engineered material use); USES (Uses).
 (powders modified on surface by coating
 with Me hydrogen siloxanes showing improved adhesion to skin for)

L74 ANSWER 15 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:483405 HCAPLUS
 DOCUMENT NUMBER: 125:116698
 TITLE: Polyurethane-covered silicone rubber moldings and their manufacture

INVENTOR(S): Ueno, Hideki; Sawamura, Tatsuhiko
 PATENT ASSIGNEE(S): Toshiba Silicone, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08118417	A2	19960514	JP 1994-253707	19941019
PRIORITY APPLN. INFO.:			JP 1994-253707	19941019

ED Entered STN: 15 Aug 1996

AB The title moldings, useful for wiper blades with good interlayer adhesion and no squeaking noise, are manufactured by forming a thin layer of polyurethanes or urethane rubber (e.g., Nippollan 5128, Nippollan 5111) on the cavity of a mold (e.g., with fluoropolymer releasing coating), injecting a liquid silicone rubber composition (e.g., di-Me siloxanes containing silica 20, powdered quartz 60, Me-hydrogen siloxane 1.1, cyclic siloxane derivative 4.5 phr, as well as Pt-Me vinyl siloxane complex) into the cavity, curing at 80-200°, and demolding.

IT 2370-88-9D, Tetramethylcyclotetrasiloxane, γ-

(trimethoxysilyl)propyl methacrylate derivative 9004-73-3,
Poly[oxy(methylsilylene)]
RL: MOA (Modifier or additive use); USES (Uses)
(polyurethane-covered silicone rubber moldings and their manufacture)

L74 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:721116 HCAPLUS
DOCUMENT NUMBER: 123:92899
TITLE: manufacture of modified **powders** with
inhibited surface light scattering
INVENTOR(S): Kuroda, Akihiro
PATENT ASSIGNEE(S): Kanebo Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 07062263	A2	19950307	JP 1993-238716	19930830

PRIORITY APPLN. INFO.: JP 1993-238716 19930830
ED Entered STN: 05 Aug 1995
AB Modified powders with inhibited surface light scattering and improved durability are prepared by **coating** 100 weight parts powders with 12-80 weight parts Me hydrogen polysiloxane and trimethylsiloxysilicic acid and heating at 70-200° for 0.5-24 h. The modified powders can be used in manufacturing e.g. cosmetic foundations.
IT 9004-73-3, Poly[oxy(methylsilylene)] 49718-23-2 156118-35-3D, TMS-terminated
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(manufacture of modified cosmetic **powders** with inhibited surface light scattering)

L74 ANSWER 17 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:701801 HCAPLUS
DOCUMENT NUMBER: 123:92896
TITLE: modified **powders** for manufacturing cosmetics
INVENTOR(S): Kuroda, Akihiro
PATENT ASSIGNEE(S): Kanebo Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 07026164	A2	19950127	JP 1993-193089	19930707

PRIORITY APPLN. INFO.: JP 1993-193089 19930707
ED Entered STN: 27 Jul 1995
AB Modified powders (e.g. silicone-**coated** sericite) for manufacturing cosmetics are prepared by mixing 100 weight parts powders with 30-60 weight parts methylhydrogen polysiloxane, and heating at 80-130° for 0.5-4 h and then at 10-200° for 1-8 h to give modified powders. Cosmetics manufactured with the modified powders showed improved

adhesion and durability and no color changes were noted when the cosmetics were wetted.

IT 156118-35-3

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(modified **powders** for manufacturing cosmetics)

L74 ANSWER 18 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:561617 HCAPLUS

DOCUMENT NUMBER: 122:298718

TITLE: Makeup cosmetics containing modified **powders**

INVENTOR(S): Kuroda, Akihiro

PATENT ASSIGNEE(S): Kanebo Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07053326	A2	19950228	JP 1993-222123	19930812
PRIORITY APPLN. INFO.:			JP 1993-222123	19930812

ED Entered STN: 20 May 1995

AB Makeup cosmetics contain (A) modified **powders** obtained by **coating** 100 weight parts **powders** with 12-60 weight parts Me hydrogen polysiloxane and heating the compns. at 70-200° for 0.5-24 h and (B) modified **powders** **coated** with F-containing compds. The cosmetics show good durability and give good feels. A cosmetic foundation containing silicone-**coated** **powders** (sericite, TiO₂; red Fe oxide, yellow Fe oxide, and black Fe oxide) and F-**coated**. talc was formulated.

IT 9004-73-3, Methyl hydrogen siloxane 49718-23-2

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(makeup cosmetics containing Me hydrogen polysiloxane-**coated** **powders** and F-**coated** **powders**)

L74 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:300171 HCAPLUS

DOCUMENT NUMBER: 122:293554

TITLE: Polyoxypropylene curable compositions for surface-protecting materials

INVENTOR(S): Hashimoto, Kazumasa; Noda, Koji; Hihiro, Tomoki; Isurugi, Masakazu; Yonezawa, Kazuya

PATENT ASSIGNEE(S): Kanegafuchi Chemical Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

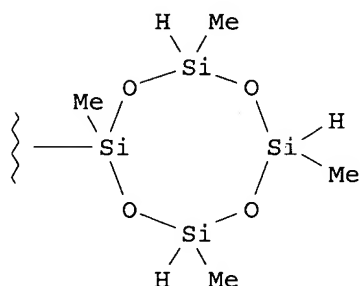
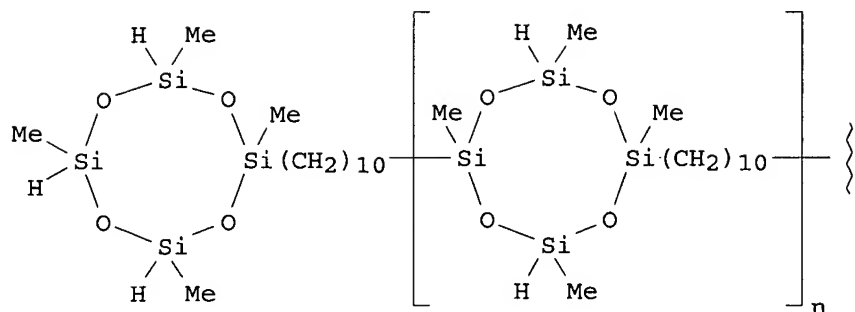
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06256713	A2	19940913	JP 1993-72843	19930309
PRIORITY APPLN. INFO.:			JP 1993-72843	19930309

ED Entered STN: 19 Jan 1995

GI



I

AB The title compns., useful for surface protection of synthetic resins, glasses, metals, etc., contain (A) ≥ 1 alkenyl-containing polyoxypropylenes, (B) ≥ 2 hydrosilyl-containing compds., (C) hydrosilylation catalysts, (D) finely powdered silica, and (E) storage stability improvers. Thus, 30 g allyl ether-terminated polyoxypropylene (average mol. weight 7960) was mixed with hydrosilyl-containing compound I ($n = 0-2$)

0.83, Aerosil R 972 6, an antioxidant 0.3 g, 8 μ L thiazole, and chloroplatinic acid solution, vacuum degassed, then cured at 100° for 10 min to give test specimens showing breaking strength 43 kg/cm², elongation 730%, and gel ratio 92%.

IT 2370-88-9, LS 8600

RL: RCT (Reactant); RACT (Reactant or reagent)

(LS 8600; reaction of bisphenol A diallyl ether and cyclic polyhydrogensiloxanes)

L74 ANSWER 20 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:143691 HCAPLUS

DOCUMENT NUMBER: 120:143691

TITLE: Cosmetics containing modified **powder**

INVENTOR(S): Kuroda, Akihiro

PATENT ASSIGNEE(S): Kanebo Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

JP 05287214 A2 19931102 JP 1992-115438 19920407
PRIORITY APPLN. INFO.: JP 1992-115438 19920407
ED Entered STN: 19 Mar 1994
AB A stable cosmetic powder is prepared by mixing a powder such as TiO₂ with a siloxane and a cyclic Me hydrogen polysiloxane, heating the mixt at 60-130° for 0.5-5.0 h and then at 110-200.degree for 1-8 h; the cosmetic containing the powder repels water and gives good sensation to the skin.

L74 ANSWER 21 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:14670 HCAPLUS
DOCUMENT NUMBER: 120:14670
TITLE: Improved **powders** treated with siloxanes and cosmetics containing the **powders**
INVENTOR(S): Kuroda, Akihiro
PATENT ASSIGNEE(S): Kanebo Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
JP 05237360	A2	19930917	JP 1992-78225	19920227
PRIORITY APPLN. INFO.:			JP 1992-78225	19920227
ED Entered STN: 08 Jan 1994				
AB	Cosmetic powders are mixed with Me ₃ SiO(SiMe ₂ O) _m (SiHMeO) _n SiMe ₃ [m, n = average number; m + n = 7-25; m:n = 1:(2-4)] and heated at 60-130° for 0.5-4 h and at 110-200° (higher temperature than that of the previous treatment) for 1-8 h. The cosmetics are aggregation free and water repellent. TiO ₂ 100, sericite 20, and di-Me Me H polysiloxane 7 g were mixed and the mixture was heated at 60-90° for 1 h and at 150° for 3 h to give a cosmetic powder.			

L74 ANSWER 22 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:13640 HCAPLUS
DOCUMENT NUMBER: 120:13640
TITLE: Ceramic **powder** and **powder** mixtures for electrodeposition processes, and its manufacture and use
INVENTOR(S): Thometzek, Peter Dr; Christ, Heinrich Dr
PATENT ASSIGNEE(S): Bayer S.p.A., Italy
SOURCE: Ger. Offen., 5 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
DE 4308789	A1	19931014	DE 1993-4308789	19930318
DE 4308789	C2	20021024		
FR 2689122	B1	19941125	FR 1993-3583	19930329
PRIORITY APPLN. INFO.:			IT 1992-MI772	A 19920331
ED Entered STN: 08 Jan 1994				
AB	The powders, whose surface has been coated with halogen-free, elec. insulating siloxanes and hydrogen siloxanes in an amount of 0.05-0.3			

weight%, addnl. contain ≥ 1 compds. having general formula M_xR_y ($M = \text{Li, Na, K, Ca, Sr, Ba, Zn, Bi, B, Pb, P, V, Mo, or W}$; $R = \text{alcoholate, carboxylate, hydroxycarboxylate, aminoalcoholate, phosphate, borate, or phosphonate}$; $x, y = \text{natural number}$) and/or 0.03-3 weight% of ≥ 1 glass types having m.p. $> 300^\circ$ but $\text{apprx. } 100^\circ$ lower than that of the ceramic powder(s) and containing $\text{SiO}_2 + \text{B}_2\text{O}_3$ 20-80, Al_2O_3 0-40, $\text{R}_1\text{O} + \text{R}_2\text{O}$ 5-70, $\text{TiO}_2 + \text{ZrO}_2$ 0-30, $\text{PbO} + \text{Bi}_2\text{O}_3 + \text{P}_2\text{O}_5$ 0-80, $\text{V}_2\text{O}_5 + \text{MoO}_3 + \text{WO}_3$ 0-10, and fluoride 0-10 weight% ($\text{R}_1\text{O} = \text{Li}_2\text{O, Na}_2\text{O, K}_2\text{O}$; $\text{R}_2\text{O} = \text{MgO, CaO, SrO, BaO, ZnO}$), and have sp. elec. resistivity 10¹²-10¹⁶ $\Omega\cdot\text{cm}$, particle size > 0 to 150, preferably 10-80 μm , and fluidity 50-120 g/30 s. The powders are manufactured by dry-milling the above ceramic frits, glass or porcelain flour, together with inorg. pigments at 20-400 $^\circ$, and post-heat-treating the powder at 70-500 $^\circ$. These powder give blister-free glazes.

L74 ANSWER 23 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:10103 HCAPLUS
 DOCUMENT NUMBER: 120:10103
 TITLE: **Powders** with improved discoloration resistance
 INVENTOR(S): Kuroda, Akihiro
 PATENT ASSIGNEE(S): Kanebo Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05214264	A2	19930824	JP 1992-56318	19920205
PRIORITY APPLN. INFO.:			JP 1992-56318	19920205

ED Entered STN: 08 Jan 1994
 AB Powders with reduced discoloration on wetting are obtained by blending 12-30 parts Me hydrogen polysiloxanes with 100 parts of a powder and heating at 120-200 $^\circ$ for 1-8 h. Thus, a mixture of 100 g TiO_2 and 25 g sericite was blended with 25 g $\text{Me}_3\text{SiO}(\text{SiMe}_2\text{O})_m(\text{SiHMeO})_n\text{SiMe}_3$ ($m, n = \text{average } 10$), stirred, heated to 160 $^\circ$ in 1 h and at 160 $^\circ$ for 4 h, crushed, and pelletized to give a sample showing no discoloration when treated with H_2O , EtOH , or olive oil, even for 5 min.
 IT 2370-88-9
 RL: USES (Uses)
 (coatings, on powders, for improved discoloration resistance)

L74 ANSWER 24 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1993:678370 HCAPLUS
 DOCUMENT NUMBER: 119:278370
 TITLE: Makeup cosmetics containing siloxane-coated **powders**
 INVENTOR(S): Kuroda, Akihiro
 PATENT ASSIGNEE(S): Kanebo Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05221828	A2	19930831	JP 1992-69707	19920218

PRIORITY APPLN. INFO.:
ED Entered STN: 25 Dec 1993
AB Makeup cosmetics, which do not change colors after sweating, contain **coated** powders prepared by heating 100 weight parts powders with 12-30 weight parts Me H siloxane at 120-200° for 1-8 h.
A mixture of 100 g TiO₂ and 25 g sericite was mixed with 25 g Me₃SiO[SiMe₂O]_m[SiMeHO]_nSiMe₃ (m = n = average 10) at 160° for 4 h and pulverized to give **coated** powders. A foundation was prepared from liquid paraffin 3.0, squalane 5.0, Me siloxane 4.0, sorbitan monooleate 2.0, antiseptic agent 0.2, perfume 0.3, and Me H siloxane-**coated** sericite, talc, TiO₂, and Fe oxides 85.5 parts.

L74 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:503020 HCAPLUS
DOCUMENT NUMBER: 119:103020
TITLE: Cosmetics containing **powders coated** with polysiloxanes and straight-chain alkenes
INVENTOR(S): Kuroda, Akihiro; Maeno, Kyoshi
PATENT ASSIGNEE(S): Kanebo Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05112430	A2	19930507	JP 1991-299667	19911018

PRIORITY APPLN. INFO.:
ED Entered STN: 04 Sep 1993
AB Cosmetics contain 100 weight parts powders **coated** with 1-15 weight parts Me H polysiloxanes and 0.03-3 weight parts C8-14 straight-chain hydrocarbons having 1 double bond at the terminals, heated at 70-120° for 0.3-4 h, then heated at 120-200.
degree. for 1-8 h. The cosmetics show good water-repellency and color. Red iron oxide (1 kg) was mixed with 50 g Me H polysiloxane and 15 g 1-tetradecene, the mixture pulverized, heated at 100° for 2 h, and heated at 160° for 2 h to give **coated** powder. Cosmetic foundation containing the powder was formulated.

L74 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:82923 HCAPLUS
DOCUMENT NUMBER: 118:82923
TITLE: Modified **powders** with good water repellency, solvent resistance and feel
INVENTOR(S): Kuroda, Akihiro; Tsugita, Akira
PATENT ASSIGNEE(S): Kanebo, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

JP 04246474 A2 19920902 JP 1991-33752 19910201
PRIORITY APPLN. INFO.: JP 1991-33752 19910201

ED Entered STN: 02 Mar 1993

AB The title powders useful for **coatings**, plastics, cosmetics, etc. are formed by treating powders with silicones and C16-24 saturated branched alc(s). at 140-200° at the powder-silicone weight ratio 100:1-10 and powder-alc. weight ratio 100:0.1-5. Thus, TiO2 (1 kg) was slurried in a solution from 50 g KF 99P, 50 g isostearyl alc., and 1.3 kg MeCCl3, freed from the solvent by distillation, pulverized, and heat treated at 200° for 4 h.

L74 ANSWER 27 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:578138 HCAPLUS

DOCUMENT NUMBER: 117:178138

TITLE: Cosmetics containing organosilicone-coated **powders**

INVENTOR(S): Kuroda, Akihiro; Tsugita, Akira

PATENT ASSIGNEE(S): Kanebo, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 04202110	A2	19920722	JP 1990-336340	19901129
PRIORITY APPLN. INFO.:			JP 1990-336340	19901129

ED Entered STN: 01 Nov 1992

AB Cosmetics contain modified powders prepared by mixing powders with 0.1 µm-2 mm particle size and polymerizable organosilicones with 1-400 cSt viscosity at 25° followed by heating at 70-130° for 0.5-4 h and then heating at higher temperature and finally at 110-200. **degree.** for 1-12 h. A mixture of 1 kg TiO2 (0.8 µm particle size), 20 g KF-99P (Me H polysiloxane, 19 cSt), and 20 g KF-9901 (Me H polysiloxane, 19 cSt) was pulverized and heated at 120° for 2 h and at 180° for 6 h. A powder foundation comprised the silicone-treated TiO2 20.0, similarly silicone-treated mica, talc, red iron oxide, yellow iron oxide, and black iron oxide 41.2, 20.0, 1.0, 3.0, and 0.3, resp., liquid paraffin 3.0; squalane 5.0, Me polysiloxane 4.0, sorbitan monooleate 2.0, antiseptics 0.2, and perfumes 0.3 part by weight The foundation had good water-repelling property.

L74 ANSWER 28 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:578136 HCAPLUS

DOCUMENT NUMBER: 117:178136

TITLE: Cosmetics containing **powders coated** with organosilicones and oils

INVENTOR(S): Kuroda, Akihiro; Tsugita, Akira

PATENT ASSIGNEE(S): Kanebo, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

JP 04202108	A2	19920722	JP 1990-336333	19901129
JP 2758498	B2	19980528		

PRIORITY APPLN. INFO.: JP 1990-336333 19901129

ED Entered STN: 01 Nov 1992

AB Cosmetics contain modified powders prepared by mixing powders with polymerizable organosilicones with 1-400 cSt viscosity at 25° and oil agents with 1-400 cSt viscosity at 25° followed by heating at 70-130° for 0.5-4 h and then heating at higher temperature and finally at 110-200° for 1-12 h. A mixture of 1 kg TiO₂, 40 g KF-99P (Me H polysiloxane, 19 cSt), and 10 g isostearyl alc. (110 cSt) was pulverized and heated at 100° for 2 h and at 180° for 5 h. A powder foundation comprised the silicone-treated TiO₂ 20.0, similarly silicone-treated mica, talc, red iron oxide, yellow iron oxide, and black iron oxide 41.2, 20.0, 1.0, 3.0, and 0.3, resp., liquid paraffin 3.0, squalane 5.0, Me polysiloxane 4.0, sorbitan monooleate 2.0, antiseptics 0.2, and perfumes 0.3 part by weight. The foundation had good water-repelling property.

L74 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:596528 HCAPLUS

DOCUMENT NUMBER: 113:196528

TITLE: Frits, treated with electracally insulating substances, for electrostatic deposition on ceramics, and their manufacture and use

INVENTOR(S): Zybell, Paul; Broggi, Giovanni

PATENT ASSIGNEE(S): Bayer Italia S.p.A., Italy

SOURCE: Eur. Pat. Appl., 5 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 382003	A2	19900816	EP 1990-101432	19900125
EP 382003	A3	19910925		
R: DE, ES, FR, GB, IT, NL				
JP 02243580	A2	19900927	JP 1990-20516	19900201
CA 2009294	AA	19900807	CA 1990-2009294	19900205
PRIORITY APPLN. INFO.:			IT 1989-19329	A 19890207

ED Entered STN: 23 Nov 1990

AB The elec. insulating substances are halogen-free siloxanes containing groups which react with the surface of the ceramic powder, and are used in amts. of 0.05-0.1 weight% (based on the powder). The ceramic powders hot-milled with the siloxanes at 70-100° (or cold-milled and heated at 70°-300°) has particle size 1-100 µm, sp. resistivity 1012-1016 Ω.cm, coefficient of cubic expansion (130-230) + 10-7/K, and fluidity (described) 50-90 g/30 s. The powders adhere well to ceramics and do not fall off during handling before firing.

L74 ANSWER 30 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:631297 HCAPLUS

DOCUMENT NUMBER: 105:231297

TITLE: Treatment of powder enamels for application in a high-voltage electric field

AUTHOR(S): Mogila, M.; Moravcik, A.

CORPORATE SOURCE: Min.-Metall. Inst., Ostrava, Czech.

SOURCE: Steklo i Keramika (1986), (10), 29-30

CODEN: STKRAQ; ISSN: 0039-1115
DOCUMENT TYPE: Journal
LANGUAGE: Russian
ED Entered STN: 26 Dec 1986
AB The elec. resistance of glass and glass-ceramic powder was increased from $<1 + 108$ to $1011 \Omega\text{-m}$ by treating with methylhydrogen polysilane at $160\text{-}200^\circ$ without a catalyst or at $120\text{-}160^\circ$ with a catalyst. The treated powder provided optimum insulating **coating** quality at a particle size of $10\text{-}80 \mu$. The results can be used to improve the electrostatic **coating** of metal surfaces with enamel powder.

L74 ANSWER 31 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:415209 HCAPLUS
DOCUMENT NUMBER: 105:15209
TITLE: Carrier for electrostatographic developer
INVENTOR(S): Sato, Keiji; Yamada, Hiroyuki
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60192961	A2	19851001	JP 1984-47211	19840314
PRIORITY APPLN. INFO.:			JP 1984-47211	19840314

ED Entered STN: 13 Jul 1986
AB The claimed carrier is formed by treating an Fe powder **coated** with a silicone oil having the repeating unit SiHRO ($\text{R} = \text{C}\leq 4$ alkyl, aralkyl, aryl) and a specific resistivity of $\leq 1012 \Omega\text{-cm}$ at $\geq 100^\circ$. The carrier has high conductivity and provides a stable performance under high-humidity conditions. Thus, an Fe powder (EFVS) was treated in a fluidized bed with a $\text{CHCl}:\text{CCl}_2$ solution of methylhydrodienepolysiloxane (KF 99) which was 0.3% of the Fe powder. After drying at 60° , the material was heated at 200° for 1 h. The specific resistivity was $2 + 106 \Omega\text{-cm}$. A developer prepared by mixing the carrier with a toner 5% gave high-quality, fog-free images under conditions ranging from 10° and 20% relative humidity to 30° and 80% relative humidity. Control carriers treated at 60° or 100° showed failures.

L74 ANSWER 32 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:476275 HCAPLUS
DOCUMENT NUMBER: 91:76275
TITLE: Hydrophobic **powder**
INVENTOR(S): Saito, Tsutomu; Tomita, Kenichi; Tsuchiya, Tasuku; Fukui, Hiroshi; Kamata, Masatomo; Katsura, Hiroji
PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

JP 54056083 A2 19790504 JP 1977-122214 19771012
JP 56043264 B4 19811012

PRIORITY APPLN. INFO.: JP 1977-122214 A 19771012

ED Entered STN: 12 May 1984

AB One or more of mica, kaolin, talc, Fe₂O₃, TiO₂, mica **coated** with TiO₂, SiO₂, ultramarine, prussian blue, and ZnO and of metal hydroxides are ball-milled and **coated** mechanochem. with Me hydrogen silicone oil (I) of SiH equivalent ≤ 550 (g number of I to evolve 1 mol H) under inert gas, optionally ball-milled further with C \geq 12 fatty or C \geq 4 dicarboxylic acid in an amount up to equivalent to the hydroxide. The powder is **coated** homogeneously with I to be strongly hydrophobic so that it can be used for cosmetics, resin and gum additives, magnetic tape, paint, ink, and lubricant. Thus, mica (for cosmetics) of sp. surface area 7.7 m²/g and average diameter 0.23 μ 97.2 and Zn(OH)₂ 0.4 parts were vibration-ball-milled for 10 min, further with 2.3 parts of I of SiH equivalent 77 for 30 min under N stream to remove evolved H, and then with 1.8 parts myristic acid for 30 min to have average diameter 0.27 μ , vs. .apprx.0.5 when a mixture of the mica 97.2, I 2.3, and C₆H₆ 30 parts was heated at 200° for 30 min with stirring, and less hydrophobic when ground further to the original size.

FILE 'HOME' ENTERED AT 16:26:24 ON 28 APR 2005

=>

THIS PAGE BLANK (USPTO)

=> d his full

(FILE 'HOME' ENTERED AT 14:21:42 ON 28 APR 2005)

FILE 'CAPLUS' ENTERED AT 14:22:53 ON 28 APR 2005

SET LINE 250
SET DETAIL OFF
E US2003-679298/AP, PRN 25
SET NOTICE 1000 SEARCH
L1 1 SEA ABB=ON US2003-679298/AP
SET NOTICE LOGIN SEARCH
SET LINE LOGIN
SET DETAIL LOGIN
D SCAN
D SCAN
SEL RN

FILE 'REGISTRY' ENTERED AT 14:23:51 ON 28 APR 2005

L2 23 SEA ABB=ON (10043-11-5/BI OR 12018-01-8/BI OR 12174-53-7/BI
OR 12227-89-3/BI OR 1306-38-3/BI OR 1309-37-1/BI OR 1314-13-2/B
I OR 1344-28-1/BI OR 13463-67-7/BI OR 14807-96-6/BI OR
155940-43-5/BI OR 156118-35-3/BI OR 2370-88-9/BI OR 26403-67-8/
BI OR 31900-57-9/BI OR 49718-23-2/BI OR 51274-00-1/BI OR
541-02-6/BI OR 7631-86-9/BI OR 7727-43-7/BI OR 7787-59-9/BI OR
9004-73-3/BI OR 9016-00-6/BI)
D SCAN
L3 1 SEA ABB=ON 9004-73-3
D SCAN
L4 1 SEA ABB=ON 49718-23-2
D SCAN
L5 1 SEA ABB=ON 9016-00-6
D SCAN
L6 1 SEA ABB=ON 31900-57-9
D SCAN
L7 0 SEA ABB=ON (L3 OR L4) AND (L5 OR L6)
SET SMARTSELECT ON
L8 SEL L6 1- RN : 1 TERM
SET SMARTSELECT OFF
L9 6 SEA ABB=ON L8/CRN
D SCAN
L10 12 SEA ABB=ON L2 AND SI/ELS
E SILANEDIOL, DIMETHYL-, POLYMER WITH METHYLSILANEDIOL/CN
L11 1 SEA ABB=ON "SILANEDIOL, DIMETHYL-, POLYMER WITH METHYLSILANEDI
OL"/CN
D SCAN
L12 0 SEA ABB=ON L11 AND L9
D IDE L11
L13 1 SEA ABB=ON 1066-42-8
L14 1 SEA ABB=ON 43641-90-3
L15 0 SEA ABB=ON L13 AND L14
L16 735 SEA ABB=ON 1066-42-8/CRN AND 43641-90-3/CRN
L17 3 SEA ABB=ON L16 AND 2/NC
D SCAN
L18 3 SEA ABB=ON L11 OR L17
D SCAN L13
D SCAN L14
D SCAN L4
D SCAN L9
L19 1 SEA ABB=ON 2370-88-9
D SCAN

THIS PAGE BLANK (USPTO)

FILE 'CAPLUS' ENTERED AT 15:07:19 ON 28 APR 2005

L20 2215 SEA ABB=ON L3 OR L4 OR L14
L21 1526 SEA ABB=ON L17
L22 909 SEA ABB=ON L19
L23 246323 SEA ABB=ON POWDER#/OBI
L24 259 SEA ABB=ON (L20 OR L21 OR L22) AND L23
L25 89263 SEA ABB=ON PARTICLE SIZE#/OBI
L26 11 SEA ABB=ON L24 AND L25
E SILOXANES/CT
E E8+ALL
L*** DEL 477 S SILOXANES AND SILICONES/CT
L27 49842 SEA ABB=ON POLYSILOXANES/CT
L*** DEL 1984 S L***-L27(L) (METHY OR ME) (L) (H OR HYDROGEN)
L28 54841 SEA ABB=ON "SILOXANES AND SILICONES"/CT
L29 3166 SEA ABB=ON (L27 OR L28) (L) (METHY/OBI OR ME/OBI) (L) (H/OBI OR
HYDROGEN/OBI)

FILE 'STNGUIDE' ENTERED AT 15:14:36 ON 28 APR 2005

FILE 'CAPLUS' ENTERED AT 15:17:52 ON 28 APR 2005

L30 15 SEA ABB=ON L29 AND L23 AND L25
L31 24 SEA ABB=ON L30 OR L26
L32 105049 SEA ABB=ON (SURFACE?(5A)COAT?)/BI
L33 2 SEA ABB=ON L31 AND L32
D SCAN TI
L34 1361 SEA ABB=ON L32(L)L23
L35 7 SEA ABB=ON L34 AND ((L20 OR L21 OR L22) OR L29)
D SCAN TI
D AB L1
L36 2199773 SEA ABB=ON HEAT?/BI
L37 3975302 SEA ABB=ON .DEGREE./BI
L38 436 SEA ABB=ON ((L20 OR L21 OR L22) OR L29) AND L23
L39 212 SEA ABB=ON (L36 OR L37) AND L38
L40 82 SEA ABB=ON L36 AND L37 AND L38
L41 57 SEA ABB=ON L36 (8A)L37 AND L38
D KWIC 1-5
L42 142672 SEA ABB=ON HIGH##/OBI (3A)TEMP?/OBI
L43 543800 SEA ABB=ON (HIGH## (3A)TEMP?)/BI
L44 5 SEA ABB=ON L41 AND L43
D KWIC 1-5

FILE 'STNGUIDE' ENTERED AT 15:28:41 ON 28 APR 2005

FILE 'CAPLUS' ENTERED AT 16:06:40 ON 28 APR 2005

L45 14278 SEA ABB=ON 2##/OBI(2W)L37
L46 1 SEA ABB=ON L45 AND ((L20 OR L21 OR L22) OR L29)
D SCAN TI
D KWIC
L47 3282 SEA ABB=ON 2!!/OBI(2W)L37
L48 0 SEA ABB=ON L47 AND ((L20 OR L21 OR L22) OR L29)

FILE 'LCA' ENTERED AT 16:10:20 ON 28 APR 2005

L49 12282 SEA ABB=ON .DEGREE.
D KWIC 1-3
L50 1758 SEA ABB=ON 2!!(2W)L49
D KWIC 1-5

FILE 'HCAPLUS' ENTERED AT 16:12:08 ON 28 APR 2005

D QUE L33

THIS PAGE BLANK (USPTO)

D QUE L35
 L51 2215 SEA ABB=ON L3 OR L4 OR L14
 L52 1526 SEA ABB=ON L17
 L53 909 SEA ABB=ON L19
 L54 246323 SEA ABB=ON POWDER#/OBI
 L55 49842 SEA ABB=ON POLYSILOXANES/CT
 L56 54841 SEA ABB=ON "SILOXANES AND SILICONES"/CT
 L57 105049 SEA ABB=ON (SURFACE?(5A)COAT?)
 L58 105049 SEA ABB=ON (SURFACE?(5A)COAT?)
 L59 3051 SEA ABB=ON (L55 OR L56) (L) (ME OR METHYL?) (A) (H OR HYDROGEN)
 D QUE L33
 L60 27 SEA ABB=ON ((L51 OR L52 OR L53) OR L59) AND L54 AND L58
 L61 89263 SEA ABB=ON PARTICLE SIZE#/OBI
 L62 2 SEA ABB=ON ((L51 OR L52 OR L53) OR L59) AND L54 AND L58 AND
 L61
 D QUE L35
 L63 7 SEA ABB=ON ((L51 OR L52 OR L53) OR L59) AND L57(L)L54
 L64 3975302 SEA ABB=ON .DEGREE.
 L65 587977 SEA ABB=ON (20! OR 21! OR 22! OR 23! OR 24! OR 25! OR 26! OR
 27! OR 28! OR 29!)(2W)L64
 L66 317600 SEA ABB=ON (30! OR 31! OR 32! OR 33! OR 34! OR 35! OR 36! OR
 37! OR 38! OR 39!)(2W)L64
 L67 225167 SEA ABB=ON (40! OR 41! OR 42! OR 43! OR 44! OR 45! OR 46! OR
 47! OR 48! OR 49!)(2W)L64
 L68 202019 SEA ABB=ON (50! OR 51! OR 52! OR 53! OR 54! OR 55! OR 56! OR
 57! OR 58! OR 59!)(2W)L64
 L69 41 SEA ABB=ON ((L51 OR L52 OR L53) OR L59) AND L54 AND (L65 OR
 L66 OR L67 OR L68)
 L70 5 SEA ABB=ON L69 AND L57
 D KWIC 1-5
 L71 1012449 SEA ABB=ON COAT?
 L72 25 SEA ABB=ON L69 AND L71
 L73 20 SEA ABB=ON L72 NOT (L70 OR L62 OR L63)
 D SCAN TI

FILE 'STNGUIDE' ENTERED AT 16:23:49 ON 28 APR 2005
 D QUE L72

FILE 'REGISTRY' ENTERED AT 16:26:01 ON 28 APR 2005
 D IDE L3
 D IDE L4
 D IDE L14
 D IDE L17 1-3
 D IDE L19

FILE 'HCAPLUS' ENTERED AT 16:26:05 ON 28 APR 2005
 D QUE L62
 D QUE L63
 D QUE L72

L74 32 SEA ABB=ON L62 OR L63 OR L72
 D IBIB ED ABS HITRN 1-32

FILE 'HOME' ENTERED AT 16:26:24 ON 28 APR 2005

FILE HOME

FILE CAPLUS

Copyright of the articles to which records in this database refer is

THIS PAGE BLANK (USPTO)

held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 28 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 27 Apr 2005 (20050427/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 APR 2005 HIGHEST RN 849400-77-7
DICTIONARY FILE UPDATES: 27 APR 2005 HIGHEST RN 849400-77-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 22, 2005 (20050422/UP).

FILE LCA
LCA IS A STATIC LEARNING FILE

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE
SUBSTANCE IDENTIFICATION.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate

THIS PAGE BLANK (USPTO)

substance identification.

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 28 Apr 2005 VOL 142 ISS 18

FILE LAST UPDATED: 27 Apr 2005 (20050427/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

THIS PAGE BLANK (USPTO)